DOCUMENT RESUME

ED 320 616 JC 900 339

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TITLE Modesto Junior College Athletes: A Study of their Demographics and Academic Performance. 1988-89 Update.
INSTITUTION Modesto Junior Coll., Calif.
PUB DATE 90
NOTE 29p.
PUB TYPE Reports - Research/Technical (143) -- Statistical Data (110)

EDRS PRICE MF01/PC02 Plus Postage.
DESCRIPTORS *Academic Achievement; *Athletes; College Athletics; Community Colleges; Educational Background; Grade Point Average; Majors (Students); Outcomes of Education; Physical Education; Scores; *Student Characteristics; *Student Educational Objectives; Two Year Colleges; Two Year College Students

ABSTRACT

In 1989, a study was conducted of student athletes at Modesto Junior College (MJC), replicating a similar study conducted in 1988. The study was designed to determine the demographic characteristics, educational backgrounds, goals, academic performance, and educational outcomes of the student athletes. Major findings of the study were as follows: (1) 230 men and 93 women participated on MJC's 19 athletic teams, representing an increase in the number of men (+16) and a decrease in the number of women (-10) from 1987-88; (2) about 23% of the athletes were ethnic minorities (up 3% from 1987-88), and 84% were under 21 years of age; (3) 96% of the athletes had obtained a high school diploma, compared to 86% of the total MJC student body and 92% of the 1987-88 athlete sample; (4) the athletes' placement test results were slightly higher than those of the MJC student body as a whole in both 1987-88 and 1988-89; (5) with respect to educational goals, most athletes were interested in transferring (46%) or were undecided (43%); (6) 12% of the athletes majored in physical education; (7) 70% of the athletes had completed over 25 cumulative units; (8) the athletes had an average cumulative grade point average of 2.7, as did the 1987-88 sample; and (9) during 1988-89, 12 of the 324 athletes received associate degrees and 55 transferred. (JMC)

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RESEARCH REPORT

Modesto Junior College

Columbia College

MODESTO JUNIOR COLLEGE ATHLETES:

A Study of their Demographics and Academic Performance

1988-89 Update

JC 900 339

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MJC 1988/89 ATHLETES: A STUDY OF THEIR DEMOGRAPHICS AND ACADEMIC PERFORMANCE

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TABLE OF CONTENTS

	Page Number
List of Tables	i
List of Graphs	ii
ABSTRACT	1
INTRODUCTION	2
METHODS	2
FINDINGS	3
DISCUSSION OF RESULTS	23

LIST OF TABLES

Table Number	Title	Page Number
1	Number of Members on MJC Athletic Teams	3
2	Ethnicity of MJC Athletes	4
3	Age of MJC Athletes	5
4	High Schools Attended by MJC Athletes	6
5	High School Certification Received by MJC Athletes	7
6	Number of MJC Athletes Taking Placement Tests	8
7	English Placement Test Results, by Sport	9
8	Math Placement Test Results, by Sport	10
9	Reading Placement Test Results, by Sport	11
10	Educational Goals of MJC Athletes	12
11	Majors of MJC Athletes	13
12	Ranges of Cumulative Units Attempted	14
13	Cum Units Attempted, Earned and Cum GPA	15
14	Ranges of Cum GPA's	16
15	PE Units vs Non-PE Units Attempted and Percent Non-PE Units	17
16	PE GPA, Non-PE GPA and Cum GPA (Averages)	18
17	Ranges of Non-PE GPA's of MJC Athletes	19
18	Degrees Earned by MJC Athletes	20
19	MJC Athletes - Transfers	21
20	College/University of MJC Athlete Transfers	22

LIST OF GRAPHS

Graph Number	Title	Page Number
1	Comparison of Ethnicity: MJC Athletes and Total Student Body	4
2	Comparison of Age: MJC Athletes and Total Student Body	5
3	Comparison of English Placement Test Results: MJC Athletes and Total Student Body	9
4	Comparison of Math Placement Test Results: MJC Athletes and Total Student Body	10
5	Comparison of Reading Placement Test Results: MJC Athletes and Total Student Body	11
6	Comparison of Educational Goals: MJC Athletes and Total Student Body	12
7	Comparison of Majors: MJC Athletes and Total Student Body	13

ABSTRACT

There has been an increasing interest over the years in the academic performance of the student athlete. A study was conducted of the 1987-88 athletes to answer a series of questions regarding the athletes at Modesto Junior College.

The interest in the study led to its continuation in 1988-89. The results of this update are as follows:

1. What are the demographic characteristics of MJC's student athletes?

* On the 19 athletic teams, 230 men and 93 women participated. This represents an increase in the number of men (+16) and decrease in the number of women (-10) from 1987-88.

* About 23 percent of the athletes are ethnic minorities and 84 percent are under 21 years of age. This represents a slightly higher (+3%) of ethnic minorities.

2. What is their educational background prior to MJC?

* Most Athletes (96 percent) have obtained a high school certificate as compared to 86 % of the total MJC student body. This athlete percentage is higher than 1987-88 (92%).

* The percentage of athletes taking one or more placement tests increased in 1988-89.

* In general, the athletes' placement test results were again slightly higher than the MJC student body as a whole in 1988-89.

3. What are the athlete's goals?

* With respect to educational goals, most athletes are interested in "transferring" (46%) or are "undecided" (43%). This represents a slightly lower percentage interested in transferring (-4%) and much larger "undecided" group (+10%).

* The percentage of athletes majoring in physical education was 12%; 26% were "undecided" for their major compared to 28% college wide.

4. What is the academic record of athletes at MJC?

* Most athletes have completed over 25 cum units (70%) and have an average cum GPA of 2.7. This cum GPA is the same as that for athletes in the 1987-88 season.

* Seventy-three percent (73%) of the cum units earned were non-PE units. This represents a slight increase in non PE units over 1987-88.

* The non-PE GPA was 2.1 compared to 3.7 GPA for PE units. There was little change from 1987-88.

* Thirty-eight percent (38%) of the athletes had non-PE GPA's less than 2.0. This is a decrease of 3% (down from 41%) from the previous year.

5. What have been the educational outcomes for the student athletes?

* Twelve of the 324 athletes received associate degrees.

* Fifty-five of the 324 athletes transferred.

INTRODUCTION

There has been an increasing interest over the years in the academic performance of the student athlete. In 1988, a study was conducted of the student athletes at Modesto Junior College. This report represents an update of this study using 1988-89 student data.

METHODS

The initial request for the study came from the MJC Division Dean of Physical Education, Recreation and Health Education and the Dean of Instruction. The first study was conducted for the 1987-88 athletes, and a series of questions were raised:

1. *What are the demographic characteristics of MJC's student athletes?*
2. *What is their educational background prior to MJC?*
3. *What are the athlete's goals?*
4. *What is the academic record of athletes at MJC?*
5. *What have been the educational outcomes for the student athletes?*

This report provides an update of the first one using the data from that 1988-89 student athletes at MJC. Summary data from the first report are included in the "totals" sections for comparison.

FINDINGS

During 1988-89, there were 19 athletic teams in existence at Modesto Junior College. These teams and the number of members include:

Table 1. Number of Members on MJC Athletic Teams

Sport	Number of Members	
	1987/88	1988/89
Football	62	56
CrossCountry (M)	9	10
CrossCountry (W)	9	12
Water Polo	14	15
Soccer (M)	22	25
Soccer (W)	19	16
Volleyball (W)	13	9
Wrestling	18	18
Basketball (W)	10	8
Basketball (M)	9	14
Tennis (M)	7	12
Tennis (W)	8	8
Baseball (M)	26	21
Softball (W)	13	12
Track (W)	20	15
Track (M)	28	34
Swimming (M)	13	13
Swimming (W)	10	13
Golf	7	13
TOTAL	317	324

What are the demographic characteristics of the MJC student athletes?

Gender

Of the 19 teams, 11 are primarily for men and 8 are primarily for women. A total of 231 men and 93 women participate in athletics.

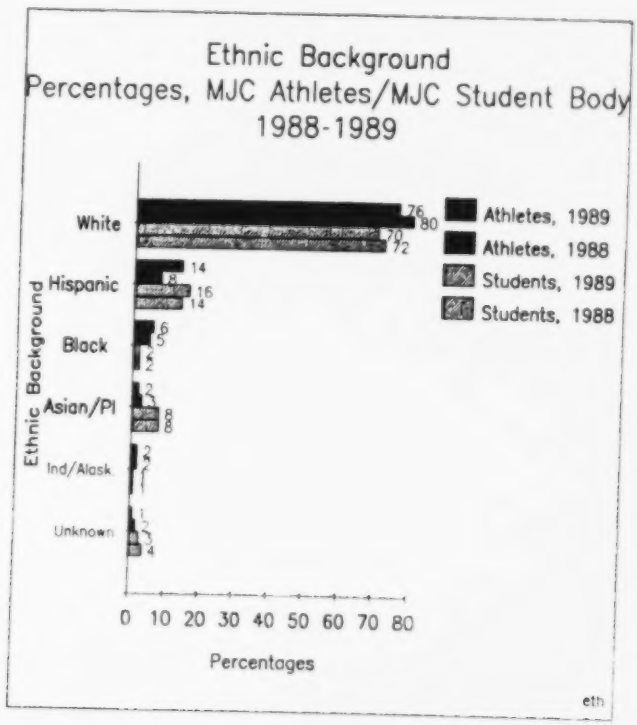
Ethnicity

The ethnicity of the athletes varies among the teams. As shown in Table 2, about 23 percent of all student athletes are minorities, ranging from a high of 38 percent minority for basketball to a low of zero percent for water polo and women's swimming. It should be noted that only percentages are presented in this table. Because football has the largest number of players (56), this team also has the largest number of minorities (19).

TABLE 2. Ethnicity of MJC Athletes (Percent of total on team)

Sport	White (%)	Hispanic (%)	Black (%)	Asian/PI (%)	Indian/Alaskan (%)	Unknown (%)
Football	64	12	20	0	2	2
CrossCountry (M)	80	10	0	10	0	0
CrossCountry (W)	75	25	0	0	0	0
Water Polo	100	0	0	0	0	0
Soccer (M)	64	28	0	8	0	0
Soccer (W)	87	6	0	0	6	0
Volleyball (W)	89	11	0	0	0	0
Wrestling	72	28	0	0	0	0
Basketball (W)	62	25	0	0	13	0
Basketball (M)	64	21	14	0	0	0
Tennis (M)	83	8	0	8	0	0
Tennis (W)	87	12	0	0	0	0
Baseball (M)	86	14	0	0	0	0
Softball (W)	75	17	0	0	8	0
Track (W)	80	20	0	0	0	0
Track (M)	68	18	12	3	0	0
Swimming (M)	85	0	8	0	8	0
Swimming (W)	100	0	0	0	0	0
Golf	85	8	0	0	0	8
% OF TOTAL - 1988-89	76	14	6	2	2	1
% OF TOTAL - 1987-88	80	8	5	3	2	2

The following graph compares the ethnicity of the athletes to the ethnicity of the total college student body.



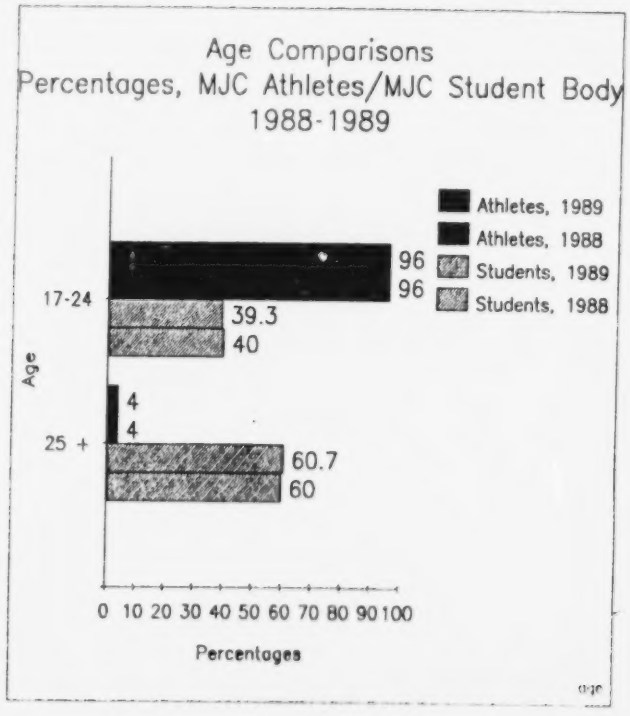
Age

The athletes are primarily young, with 84 percent under 21 years of age. Within the total MJC student body, only 30 percent of the students are in that age group.

TABLE 3. Age of MJC Athletes (Percent of total on team)

Sport	17-18	19	20	21-24	25-30	Over 30
Football	21%	32%	23%	19%	-4-	-0-
CrossCountry (M)	20%	40%	40%	-0-	-0-	-0-
CrossCountry (W)	33%	25%	25%	-8-	-0-	8%
Water Polo	60%	27%	-0-	13%	-0-	-0-
Soccer (M)	24%	44%	20%	12%	-0-	-0-
Soccer (W)	69%	19%	12%	-0-	-0-	-0-
Volleyball (W)	55%	33%	11%	-0-	-0-	-0-
Wrestling	33%	17%	33%	11%	5%	-0-
Basketball (W)	38%	25%	12%	12%	12%	-0-
Basketball (M)	29%	29%	29%	14%	-0-	-0-
Tennis (M)	17%	17%	33%	17%	-0-	17%
Tennis (W)	12%	50%	12%	12%	-0-	12%
Baseball (M)	28%	38%	19%	14%	-0-	-0-
Softball (W)	33%	50%	8%	8%	-0-	-0-
Track (W)	33%	33%	20%	-0-	13%	-0-
Track (M)	32%	38%	18%	9%	-0-	3%
Swimming (M)	31%	31%	8%	31%	-0-	-0-
Swimming (W)	46%	31%	23%	-0-	-0-	-0-
Golf	31%	15%	15%	31%	-0-	8%
% OF TOTAL - 1988-89	32%	32%	20%	12%	2%	2%
% OF TOTAL - 1987-88	33%	33%	18%	12%	1%	3%

This graph compares the percentage of MJC athletes who are under 25 years of age with those in the total MJC student body.



What is their educational background prior to MJC?

Because most of the students are less than 21 years of age, they have generally only attended high school prior to enrolling at Modesto Junior College. The following table summarizes the high schools these individuals attended and compares the totals with 1987-88.

TABLE 4. High Schools Attended by Athletes

	1987-88	1988-89
Davis High School	47	54
Beyer High School	29	35
Downey High School	32	33
Turlock High School	17	25
Modesto High School	20	21
Oakdale High School	23	15
Ceres High School	16	10
Central Catholic H.S.	11	10
Modesto Christian H.S.	6	7
Hughson High School	4	6
Escalon High School	4	5
Hilmar Jr./Sr. H.S.	6	5
Manteca High School	7	5
Los Banos High School	2	4
Ripon High School	1	4
Riverbank High School	3	4
Sonora Union H.S.	6	4
Oregon	2	3
Orestimba H.S., Newman	3	3
Patterson High School	11	3
Archbishop Mitty, San Jose	0	2
Atwater High School	1	2
Canada	0	2
Denair High School	5	2
El Cerrito High School	0	2
Franklin Sr. H.S., Stockton	0	2
Merced North High School	2	2
New Jersey	0	2
Oklahoma	1	2
Polytechnic H.S., Riverside	0	2
Ripon Christian High School	2	2
Stagg High School, Stockton	1	2
Alabama	0	1
Albany High School	0	1
Amador H.S., Pleasanton	1	0
Argonaut H.S., Sacramento	0	1
Argus High School, Ceres	1	1
Arizona	0	1
Bret Harte H.S., Angels Camp	1	1
Calaveras Jr./Sr. San Andreas	1	1
Castro Valley H.S.	1	0
Central H.S., El Centro	1	0
Chico High School	0	1
Chile	0	1
Chino High School	0	1
Chowchilla High School	1	1
Coalinga Sr. H.S.	1	0
Colorado	0	1
Eagle Mountain H.S.	1	0
East Union, Manteca	1	1
El Dorado, Placerville	0	1
Esparto High School	0	1

	1987-88	1988-89
Firebaugh High School	0	1
Florida	0	1
France	2	0
Granada H.S., Livermore	3	0
Granite Hills, El Cajon	0	1
Greenville Jr./Sr. High School	1	0
Gustine High School	1	1
Harbor H.S., Santa Cruz	1	0
Hayward High School	0	1
Honduras	0	1
Illinois	0	1
Immaculate Heart H.S., L.A.	1	0
Indio High School	0	1
James Lick H.S., San Jose	1	0
Kennedy High School	1	0
Lincoln H.S., Stockton	1	0
Livermore High School	0	1
Livingston High School	1	0
Livermore High School	0	1
Lodi High School	1	0
Los Angeles CES, L.A.	1	0
Louisiana	1	0
Loyola High School, L.A.	0	1
Maine	0	1
Mariposa County H.S.	1	0
Massachusetts	0	1
MaterDei H.S.,Santa Ana	0	1
Merced High School	0	1
Nebraska	1	0
Nevada	2	1
New Hampshire	0	1
New Mexico	2	1
Norwalk High School	0	1
Philippines	1	0
Pittsburgh Sr. High School	0	1
Salinas High School	1	1
San Bernardino High School	0	1
Santa Clara Union H.S.	1	0
Santa Teresa H.S., San Jose	0	1
Sequoia H.S., Redwood City	1	0
Skyline Evg. H.S.	2	0
St. Joseph's, Alameda	0	1
Summerhill H.S., Tuolumne	2	0
Tennessee	0	1
Tokay H.S., Lodi	2	0
Tracy Joint Union H.S.	1	0
Victor Valley Christian H.S.	2	0
Vintage H.S., Napa	1	1
Washington	0	1
Woodland High School	0	1
Yosemite H.S.	1	0

With respect to financial aid needs, 46 of the 324 student athletes (or about 14 percent) were on the financial aid file.

Most athletes (96 percent) have obtained a high school certificate. This compares with 92 percent in 1987-88.

TABLE 5. High School Certificates Received by MJC Athletes (Percent)

Sport	H.S. Certificate		No H.S. Certificate	
	1987/88	1988/89	1987/88	1988/89
Football	92%	94%	8%	5%
CrossCountry (M)	100%	100%	0%	0%
CrossCountry (W)	100%	100%	0%	0%
Water Polo	93%	87%	7%	13%
Soccer (M)	82%	100%	18%	0%
Soccer (W)	95%	94%	5%	6%
Volleyball (W)	85%	89%	15%	11%
Wrestling	83%	100%	17%	0%
Basketball (W)	90%	100%	10%	0%
Basketball (M)	100%	100%	0%	0%
Tennis (M)	100%	92%	0%	8%
Tennis (W)	100%	100%	0%	0%
Baseball (M)	100%	100%	0%	0%
Softball (W)	100%	100%	0%	0%
Track (W)	90%	93%	10%	7%
Track (M)	86%	94%	14%	6%
Swimming (M)	92%	92%	8%	8%
Swimming (W)	100%	100%	0%	0%
Golf	100%	92%	0%	8%
% OF TOTAL 1988-89		96%		4%
% OF TOTAL 1987-88	92%		8%	

The majority of the student athletes have taken placement tests: 83 percent took the English placement test, 79 percent took a math placement test and 79 percent took a reading placement test.

The following table indicates the percentages who have taken the English, math and reading tests by sport.

TABLE 6. MJC Athletes Taking Placement Tests (Percent)

Sport	English		Math		Reading	
	87/88	88/89	87/88	88/89	87/88	88/89
Football	74%	75%	65%	66%	65%	64%
CrossCountry (M)	78%	100%	67%	100%	78%	90%
CrossCountry (W)	67%	100%	67%	91%	67%	100%
Water Polo	86%	87%	79%	93%	79%	87%
Soccer (M	77%	76%	68%	60%	68%	60%
Soccer (W)	95%	94%	100%	94%	89%	94%
Volleyball (W)	100%	89%	100%	89%	100%	89%
Wrestling	83%	89%	83%	78%	72%	78%
Basketball (W)	90%	75%	100%	75%	100%	75%
Basketball (M)	78%	64%	78%	57%	56%	57%
Tennis (M)	57%	83%	57%	83%	43%	75%
Tennis (W)	88%	87%	75%	62%	88%	87%
Baseball (M)	73%	86%	85%	86%	73%	95%
Softball (W)	92%	75%	92%	67%	92%	75%
Track (W)	80%	93%	85%	87%	75%	93%
Track (M)	71%	85%	82%	82%	71%	82%
Swimming (M)	85%	85%	62%	100%	77%	92%
Swimming (W)	100%	100%	100%	100%	80%	92%
Golf	71%	61%	86%	69%	57%	61%
% OF TOTAL 1988-89		83%		79%		79%
% OF TOTAL 1987-88	80%		79%		72%	

The question then arises regarding how the student athletes did on the tests. The following tables indicate the courses into which the athletes who took the test placed.

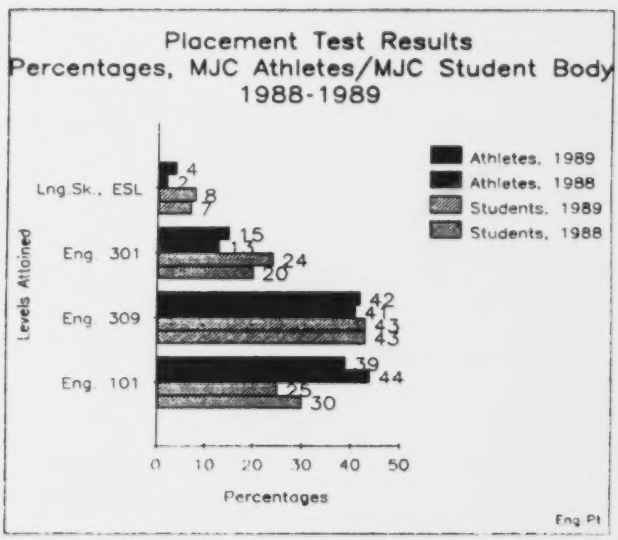
On the English placement test, a higher percentage of athletes placed in English 101 as compared to the total student body.

TABLE 7. English Placement Test Results (Percent)

Table 7. English Placement Test Results (Percent)

Sport	Number Taking Test	Learning Skills/ESL (%)	Eng 301 (%)	Eng 309 (%)	Eng 101 (%)
Football	42	2%	22%	57%	19%
CrossCountry (M)	10	0	10%	40%	50%
CrossCountry (W)	12	0	0	50%	50%
Water Polo	13	8%	8%	46%	38%
Soccer (M)	19	5%	26%	26%	42%
Soccer (W)	15	7%	0	40%	53%
Volleyball (W)	8	0	0	50%	50%
Wrestling	16	0	44%	25%	31%
Basketball (W)	6	0	17%	50%	33%
Basketball (M)	9	0	0	44%	66%
Tennis (M)	10	10%	0	40%	50%
Tennis (W)	7	0	0	29%	71%
Baseball (M)	18	11%	33%	28%	28%
Softball (W)	9	0	0	67%	33%
Track (W)	14	7%	0	43%	50%
Track (M)	29	3%	14%	38%	45%
Swimming (M)	11	9%	27%	45%	18%
Swimming (W)	13	8%	0	46%	46%
Golf	8	0	25%	37%	37%
ATHLETE TOT. 88-89	269	4%	15%	42%	39%
ATHLETE TOT. 87-88	254	2%	13%	41%	44%
MJC TOTALS (1988)		8%	24%	43%	25%

The graph compares the English placement test results for the athletes and the total student body.



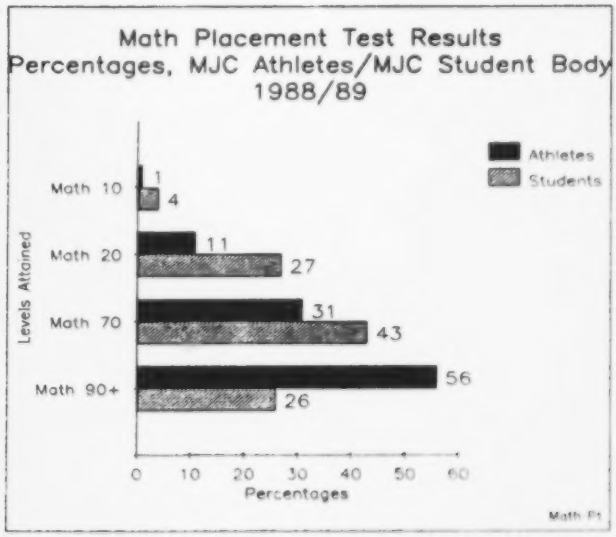
Of those taking the math placement test, the athletes generally placed at higher levels than the MJC student body as a whole.

TABLE 8. Math Placement Test Results (percent placing)*

Sport	Number Taking Test	Math 10	Math 20	Math 70	Math 90 & Above
Football	37	3%	11%	43%	43
CrossCountry (M)	10	-0-	-0-	40%	60%
CrossCountry (W)	11	-0-	18%	36%	45%
Water Polo	14	-0-	-0-	21%	79%
Soccer (M)	15	-0-	20%	113	67%
Soccer (W)	15	-0-	7%	27%	67%
Volleyball (W)	8	-0-	-0-	75%	25%
Wrestling	14	-0-	7%	50%	43%
Basketball (W)	6	-0-	17%	17%	67%
Basketball (M)	8	-0-	-0-	13%	87%
Tennis (M)	10	-0-	20%	10%	70%
Tennis (W)	5	-0-	-0-	20%	80%
Baseball (M)	18	-0-	28%	39%	33%
Softball (W)	8	-0-	25%	50%	25%
Track (W)	13	-0-	23%	46%	31%
Track (M)	28	-0-	7%	21%	71%
Swimming (M)	13	-0-	-0-	23%	77%
Swimming (W)	13	8%	15%	15%	61%
Golf	9	-0-	11%	22%	67%
ATHLETE TOTALS 88-89	255	1%	11%	31%	56%
ATHLETE TOTALS 87-88	250	1%	14%	43%	42%
MJC TOTALS (1988)		4%	27%	43%	26%

*Based on CTBS, Math 90, Math 110 or Math 171 test scores

The math placement test results for athletes and the total student body are compared on the graph below.

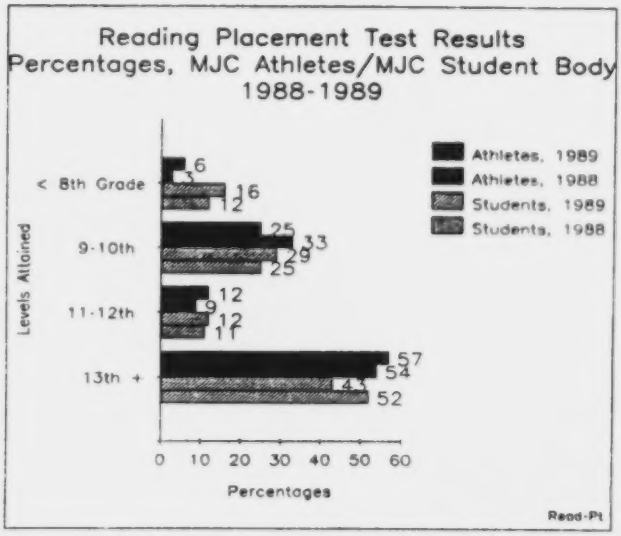


On the reading placement test, the scores for the athletes and the total student body were very similar.

TABLE 9. Reading Placement Test Results (by grade level, percent placing)

Sport	Number Taking Test	Below 8th Grade	9th-10th Grade	11-12th Grade	13th & Above
Football	36	8%	28%	14%	50%
CrossCountry (M)	9	11%	33%	0	56%
CrossCountry (W)	12	8%	25%	17%	50%
Water Polo	13	8%	8%	23%	61%
Soccer (M)	15	13%	33%	7%	47%
Soccer (W)	15	0	20%	20%	60%
Volleyball (W)	8	12%	12%	0	75%
Wrestling	14	21%	21%	21%	36%
Basketball (W)	6	0	17%	17%	67%
Basketball (M)	8	0	25%	12%	62%
Tennis (M)	9	0	33%	0	67%
Tennis (W)	7	0	14%	0	86%
Baseball (M)	20	0	35%	5%	60%
Softball (W)	9	0	33%	11%	56%
Track (W)	14	7%	36%	7%	50%
Track (M)	28	4%	32%	4%	61%
Swimming (M)	12	0	0%	33%	67%
Swimming (W)	12	8%	17%	25%	50%
Golf	8	0	25%	0	75%
ATHLETE TOTALS 88-89	255	6%	25%	12%	57%
ATHLETE TOTALS 87-88	235	3%	33%	9%	54%
MJC TOTALS (1988)		16%	29%	12%	43%

The reading placements for the athletes and the total student body are compared on the graph below.



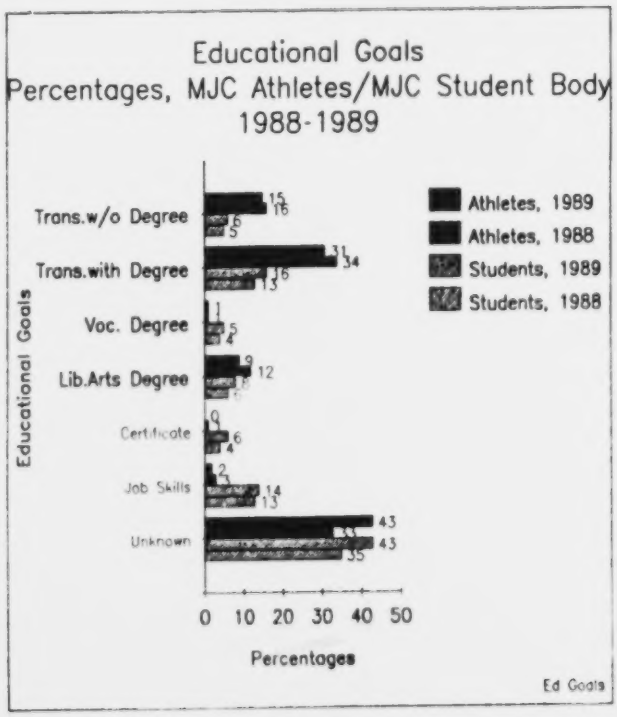
What are the athletes' goals?

The educational goals of the student athletes are included in Table 10. As indicated, most athletes are planning to transfer (about 46%) or are undecided (43%). The number of athletes who are "undecided" is much higher than in 1987-88.

TABLE 10. Educational Goals of the MJC Athletes (Number)

Sport	Transfer w/o Degree	Transfer w/Degree	Vocational Degree	Liberal Arts Degree	Certificate	Job Skills	Undecided/ Unknown
Football	8	15	1	5	0	2	25
CrossCountry (M)	3	3	0	1	0	1	2
CrossCountry (W)	3	4	0	2	0	0	3
Water Polo	2	6	0	0	0	0	7
Soccer (M)	3	6	0	4	0	0	12
Soccer (W)	2	6	0	0	0	0	8
Volleyball (W)	0	2	0	2	0	0	5
Wrestling	3	3	0	1	0	0	11
Basketball (W)	1	5	0	0	0	0	2
Basketball (M)	0	2	0	3	0	1	8
Tennis (M)	2	4	0	1	0	0	5
Tennis (W)	1	3	0	1	0	0	3
Baseball (M)	2	8	0	2	0	0	9
Softball (W)	1	5	0	1	0	0	5
Track (W)	3	5	0	0	0	1	6
Track (M)	9	7	1	0	0	1	16
Swimming (M)	2	2	0	2	0	0	7
Swimming (W)	3	8	0	0	0	0	2
Golf	1	5	0	3	0	0	4
TOTAL 1988-89	49 (15%)	99 (31%)	2 (1%)	28 (9%)	-0-	6 (2%)	140 (43%)
TOTAL 1987-88	50 (16%)	108 (34%)	2 (1%)	39 (12%)	2 (1%)	10 (3%)	106 (33%)

A comparison of the educational goals of the athletes with those of the total student body (fall 1988) is included on the following chart. As can be seen, the student athletes are more interested in transferring than the student body as a whole.

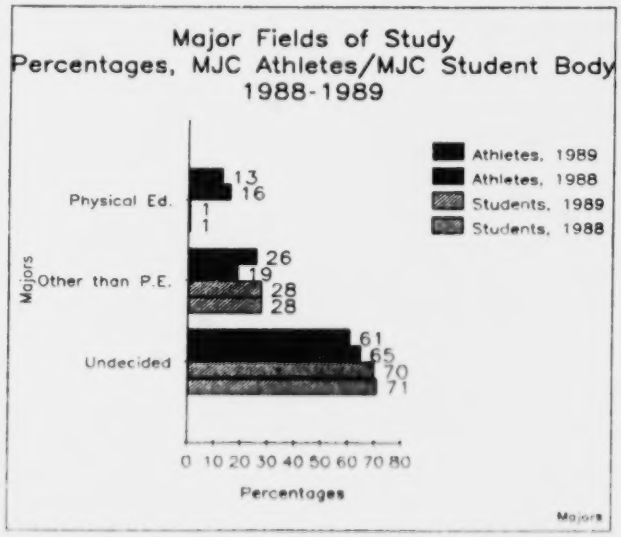


The majors of the MJC athletes have been combined into three categories: Physical Education Majors, Other than Physical Education Majors, and Undecided. The number of athletes in each of these three categories is included in Table 11. The percentage of athletes majoring in Physical Education is 13%.

TABLE 11. Majors of MJC Athletes (Number)

Sport	Physical Ed		Undecided		Other than P.E.	
	87/88	88/89	87/88	88/89	87/88	88/89
Football	15	8	12	10	35	38
CrossCountry (M)	1	1	1	2	7	7
CrossCountry (W)	0	2	2	1	7	9
Water Polo	0	1	3	6	8	8
Soccer (M)	1	0	4	7	17	18
Soccer (W)	1	2	4	7	13	7
Volleyball (W)	0	0	3	3	10	6
Wrestling	1	1	2	1	15	16
Basketball (W)	5	2	1	2	4	4
Basketball (M)	0	1	3	3	5	10
Tennis (M)	1	1	1	5	5	6
Tennis (W)	0	0	3	3	5	5
Baseball (M)	10	9	5	5	6	7
Softball (W)	6	4	1	3	6	5
Track (W)	2	3	5	3	10	9
Track (M)	3	5	3	12	22	17
Swimming (M)	1	1	2	3	10	9
Swimming (W)	2	1	2	4	6	8
Golf	0	0	1	4	6	9
TOTAL : 1988-89		42(13%)		84(26%)		198(61%)
TOTAL : 1987-88	49(16%)		58(19%)		197(65%)	

A comparison of these majors with the student body as a whole (fall 1988) is depicted in the following graph.



What is the academic record of athletes at MJC?

The academic record of the athletes while attending MJC has been studied using several different data elements, including: cumulative units attempted, cumulative units earned, cumulative GPA, non-PE units attempted, PE units attempted, non-PE GPA, and PE GPA. These data elements are summarized in the following tables.

As shown in Table 12, most athletes have earned over 25 units (70 percent). This figure is a slight decrease from 1987-88 (down from 73%).

TABLE 12. Ranges of Cumulative Units Earned by MJC Athletes (Number)

Table 12. Ranges of Cumulative Units Earned by MJC Athletes (Number)

Sport	0-12 units	13-24 units	25-36 units	37-48 units	49-72 units	Over 72 units
Football	14	5	12	7	15	3
CrossCountry (M)	0	2	2	2	4	0
CrossCountry (W)	5	1	0	1	4	1
Water Polo	1	2	8	1	2	1
Soccer (M)	2	7	8	4	4	0
Soccer (W)	2	2	8	1	3	0
Volleyball (W)	3	1	3	0	2	0
Wrestling	3	1	8	0	4	2
Basketball (W)	1	2	4	0	1	0
Basketball (M)	0	4	2	4	2	2
Tennis (M)	4	3	2	0	3	0
Tennis (W)	0	0	2	2	1	3
Baseball (M)	0	3	6	1	7	4
Softball (W)	2	2	2	3	3	0
Track (W)	2	4	3	0	5	1
Track (M)	2	7	10	4	11	0
Swimming (M)	0	1	7	0	3	2
Swimming (W)	0	3	3	3	3	1
Golf	4	2	3	0	1	3
TOTAL 1988-89	45 (14%)	52 (16%)	93 (29%)	33 (10%)	78 (24%)	23 (7%)
TOTAL 1987-88	35 (11%)	50 (16%)	102 (32%)	30 (9%)	78 (25%)	22 (7%)

The cumulative units attempted, earned and GPA are described in Table 13. Upon review of the data, you will notice that certain team's average units attempted are less than units earned. The "units earned" figure includes credit and non-credit units, while "units attempted" includes only the credit units attempted. (This is done to allow for the calculation of the GPA. This calculation excludes non-credit units.)

The average cumulative GPA for all teams is 2.7. This is the same average for the 1987-88 athletes and is about the same as the GPA for all MJC students.

TABLE 13. Cumulative Units Attempted, Earned and Cumulative GPA (Averages)

Sport	Cum Units Attempted	Cum Units Earned	Cum GPA
Football	37.0	35.1	2.5
CrossCountry (M)	44.4	39.9	2.6
CrossCountry (W)	38.1	36.0	2.7
Water Polo	37.6	34.8	2.8
Soccer (M)	34.4	33.2	2.5
Soccer (W)	29.9	29.2	2.9
Volleyball (W)	29.0	26.9	2.5
Wrestling	38.0	36.6	2.6
Basketball (W)	32.2	29.9	2.5
Basketball (M)	41.3	40.6	2.8
Tennis (M)	28.8	28.1	2.8
Tennis (W)	38.5	36.8	2.8
Baseball (M)	50.0	49.3	2.8
Softball (W)	36.4	34.0	2.5
Track (W)	40.5	38.8	2.8
Track (M)	37.9	36.1	2.8
Swimming (M)	42.6	42.3	2.9
Swimming (W)	41.3	41.3	2.9
Golf	42.1	37.4	2.2
TOTAL 1988-89	37.9	36.1	2.7
TOTAL 1987-88	38.8	37.3	2.7

To obtain a better understanding of the cumulative GPA of the athletes, the ranges of cum GPA's are depicted in Table 14. As noted, about 9 percent of the student athletes had cumulative GPA's less than 2.0 which is the same as 1987-88.

TABLE 14. Ranges of Cumulative GPA's by MJC Athletes (Number)

Sport	<2.0	2.0-2.4	2.5-2.9	3.0-3.4	3.5+
Football	6	19	19	11	1
CrossCountry (M)	2	3	2	1	2
CrossCountry (W)	4	1	1	5	1
Water Polo	1	1	9	3	1
Soccer (M)	2	14	4	2	3
Soccer (W)	1	2	5	7	1
Volleyball (W)	2	2	3	2	0
Wrestling	2	3	9	4	0
Basketball (W)	1	3	3	1	0
Basketball (M)	0	3	7	1	3
Tennis (M)	0	6	0	6	0
Tennis (W)	0	2	3	2	1
Baseball (M)	0	4	11	4	2
Softball (W)	3	2	4	2	1
Track (W)	1	4	4	5	1
Track (M)	1	7	12	10	4
Swimming (M)	0	1	6	5	1
Swimming (W)	0	3	4	5	1
Golf	4	5	1	3	0
TOTAL 1988-89	30 (9%)	85 (26%)	107 (33%)	79 (25%)	23 (7%)
TOTAL 1987-88	27 (9%)	81 (25%)	104 (33%)	74 (23%)	31 (10%)

The question then arises about the number of PE units versus Non-PE units earned by the student athletes. Table 15 describes the averages for each of the teams. These averages range from a low of 59 percent non-PE units attempted for the basketball team to a high of 86 percent non-PE units attempted for the women's swim team. The overall average (73%) represents a slight increase over 1987-88. Nine of the 19 teams had non-PE unit averages for its members of 75% or more.

What might be a reasonable comparison for PE vs Non-PE units? Discussions with the Dean of Instruction and Division Dean for PE led to the following estimate: The student athlete must take at least 12 units per semester to be eligible for an athletic team. Of those 12 units, it might be reasonable to expect that the athlete would enroll in 2 units for the sport itself and 1 unit for some related activity (such as weight training). For many athletes, they may also enroll in a theory course related to sports, such as officiating. On the average, during the school year, it might be reasonable to expect an athlete to take 3 PE units per semester, or 25 percent of the total units taken.

TABLE 15. PE Units vs Non-PE Units Attempted and Percent Non-PE* (Averages)

Sport	PE Units Earned	Non PE Units Earned	Percent Non-PE 1987/88	Non-PE 88/89
Football	10.0	24.5	69%	71%
CrossCountry (M)	11.6	33.1	71%	74%
CrossCountry (W)	8.4	27.2	67%	76%
Water Polo	12.7	22.6	67%	64%
Soccer (M)	5.4	28.7	81%	84%
Soccer (W)	7.9	21.8	83%	73%
Volleyball (W)	4.7	24.5	84%	84%
Wrestling	7.7	26.3	80%	77%
Basketball (W)	7.8	17.7	71%	69%
Basketball (M)	10.5	25.0	65%	70%
Tennis (M)	5.8	22.4	75%	79%
Tennis (W)	8.1	26.4	77%	76%
Baseball (M)	20.3	29.5	59%	59%
Softball (W)	8.0	24.5	70%	75%
Track (W)	11.9	23.7	79%	66%
Track (M)	12.3	25.9	68%	68%
Swimming (M)	11.1	29.3	69%	72%
Swimming (W)	5.7	35.5	84%	86%
Golf	8.7	30.3	78%	78%
TOTAL : 1988-89	9.4	26.2		73%
TOTAL : 1987-88	10.1	26.6	72%	

*Includes only those units earned at NJC

The GPA's earned in PE vs Non-PE courses were then reviewed for comparison. As shown in Table 16, the average PE GPA's are all 3.3 or over, with an average for all athletes of 3.7. The average non-PE GPA's showed much greater variation, with a low of 1.5 for the golf team to a high of 2.8 for women's tennis. The average for all athletes in their non-PE units was 2.1.

TABLE 16. PE GPA, Non-PE GPA and Cum GPA (Averages)

Sport	PE GPA	Non-PE GPA	Cum GPA
Football	3.3	1.8	2.5
CrossCountry (M)	3.8	2.1	2.6
CrossCountry (W)	3.7	2.3	2.7
Water Polo	3.9	2.1	2.8
Soccer (M)	3.5	2.1	2.5
Soccer (W)	3.9	2.3	2.9
Volleyball (W)	2.6	2.2	2.5
Wrestling	3.9	2.0	2.6
Basketball (W)	3.9	1.6	2.5
Basketball (M)	3.9	2.2	2.8
Tennis (M)	3.9	2.4	2.8
Tennis (W)	3.9	2.8	2.8
Baseball (M)	3.8	1.9	2.8
Softball (W)	3.6	1.8	2.5
Track (W)	3.7	2.3	2.8
Track (M)	3.6	2.4	2.8
Swimming (M)	3.9	2.6	2.9
Swimming (W)	3.6	2.7	2.9
Golf	3.8	1.5	2.2
TOTAL 1988/89	3.7	2.1	2.7
TOTAL 1987/88	3.8	2.1	2.7

As a result of reviewing these GPA data, the question was raised relative to the number of athletes who have less than a 2.0 GPA in their non-PE coursework. Table 17 indicates the number of students on each team who have less than a 2.0 GPA in their non-PE courses. As indicated, 122 or 38 percent of the athletes have non-PE course GPA's less than 2.0. This represents a decrease of 3 percent from 1987-88 athletes (down from 41%).

TABLE 17. Ranges of Non-PE GPA's by MJC Athletes (Number)

Sport	<2.0	2.0-2.4	2.5-2.9	3.0-3.4	3.5+
Football	25	13	13	5	0
CrossCountry (M)	5	1	2	2	0
CrossCountry (W)	5	2	2	3	0
Water Polo	7	3	3	2	0
Soccer (M)	9	9	4	1	2
Soccer (W)	4	1	7	3	1
Volleyball (W)	1	6	1	1	0
Wrestling	6	4	6	2	0
Basketball (W)	4	2	1	1	0
Basketball (M)	6	2	3	1	2
Tennis (M)	4	2	2	4	0
Tennis (W)	0	3	1	2	2
Baseball (M)	11	7	1	1	1
Softball (W)	5	4	2	1	0
Track (W)	5	3	3	4	0
Track (M)	10	8	10	6	0
Swimming (M)	4	2	4	2	1
Swimming (W)	2	3	4	3	1
Golf	9	1	2	0	1
TOTAL 1988-89	122 (38%)	76 (23%)	71 (22%)	44 (13%)	11 (3%)
TOTAL 1987-88	129 (41%)	75 (24%)	47 (15%)	48 (15%)	18 (5%)

What is the academic and progress status of the athletes? Of the 324 athletes who competed in the 1987-88 school year, 17 are on academic probation, 5 are academic-dismissed, 15 are on progress probation, and 4 are progress-dismissed. (Note: these are not unduplicated. Certain students may have both progress and academic status problems.)

What have been the educational outcomes for the student athletes?

There are several outcomes which would be desirable to measure. These include such things as: degree earned, job skill obtained, or transfer to four-year institution. The first measure is readily available for review. Whether an athlete transferred or obtained desired job skills is difficult to determine as these data are not entered into the student's records. (Data would need to be collected directly from the student.) In 1988-89, twelve athletes earned AA degrees.

TABLE 18. Degrees Earned by MJC Athletes (Number)*

Table 18. Degrees Earned by MJC Athletes (Number) *

Sport	Number on Team	Number Earning Degrees June 1989
Football	56	3
CrossCountry (M)	10	0
CrossCountry (W)	12	0
Water Polo	15	0
Soccer (M)	25	0
Soccer (W)	16	0
Volleyball (W)	9	0
Wrestling	18	1
Basketball (W)	8	0
Basketball (M)	14	1
Tennis (M)	12	0
Tennis (W)	8	1
Baseball (M)	21	4
Softball (W)	12	0
Track (W)	15	0
Track (M)	34	0
Swimming (M)	13	0
Swimming (W)	13	1
Golf	13	1
TOTAL 1988-89	324	12*
TOTAL 1987-88	317	16*

* Duplicate listings subtracted from total

Of the 324 athletes who participated at MJC during 1988-89, there were 55 transfers.

TABLE 19. MJC Athletes Who Have Transferred.

Sport		1988-89 Sophomores	Transferring * 1989
1.	Football	20	13
2.	Men's Soccer	7	1
3.	Men's Cross Country	5	2
4.	Women's Cross Country	4	2
5.	Women's Soccer	3	0
6.	Volleyball	2	2
7.	Water Polo	2	1
8.	Wrestling	6	3
9.	Women's Basketball	1	1
10.	Men's Basketball	5	3
11.	Men's Track	17	2
12.	Women's Track	7	1
13.	Golf	6	3
14.	Women's Tennis	3	3
15.	Men's Tennis	1	0
16.	Men's Swimming	2	3
17.	Women's Swimming	5	6
18.	Baseball	10	9
19.	Softball	0	0
	TOTAL 1988-89	106	55

Source: Individual team coaches.

* The number of transfers may be higher than the number of sophomores as athletes have transferred after freshman year.

The MJC athletes who transferred went to the following colleges or universities:

TABLE 20. College/University of MJC Athlete Transfers:

College/University	Number of Students
U.C.Berkeley	1
U.C.Davis	5
U.C.Irvine	1
U.C.Santa Barbara	1
U.of San Francisco	1
U.of Southern California	1
Brigham Young University	1
St.Mary's University	1
Cal Poly	4
Chico State	9
Fresno State	6
Hayward State	1
Humboldt State	1
Long Beach State	1
Sacramento State	3
San Francisco State	3
San Jose State	2
Sonoma State	2
Stanislaus State	8
Montana State	1
Unknown	2

DISCUSSION OF THE RESULTS

This report represents an update of the findings from the 1987-88 athletes. Overall, it appears that there has been slight improvement in the academic performance of the student athlete in 1988-89 over 1987-88 as indicated by the two data items:

*The number of non-PE units taken increased from 72% to 73%.

*There was a 3% decrease (from 41% to 38%, or from 129 to 122 students) in the number of athletes who had a non-PE GPA less than 2.0.

Because the report was organized by individual teams, there were several "team" successes to report from one year to the next. The Division Dean for Physical Education had worked closely with the coaches in 1988-89 to encourage them to monitor their athletes more closely during the season and particularly at registration time. He feels this closer contact led to the overall improvement in academic performance. Further work is being done to assure that the athletes are aware of such special services as advising, counseling, tutoring and study skills courses.

A closer look at the data, by sport, also reveals some interesting changes:

*The sports where the percentages of non-PE units taken increased by 5 percent or more in 1988-89 included:

Cross Country (W) 67% to 76%
Basketball (M) 65% to 70%
Softball (W) 70% to 75%

*The non-PE GPA increased for the following sports from 1987-88 to 1988-89:

Soccer (M) 1.9 to 2.1
Soccer (W) 2.2 to 2.3
Wrestling 1.5 to 1.9
Basketball (W) 1.4 to 1.6
Basketball (M) 1.9 to 2.2
Tennis (W) 2.1 to 2.8
Baseball (M) 1.8 to 1.9
Track (M) 2.0 to 2.3
Swimming (M) 2.2 to 2.5
Swimming (W) 2.4 to 2.6

Our experience with this study led to several general principles we feel are important for those interested in conducting a similar activity at their institution:

1. The data were separated by team and the results varied significantly among the teams. This separation allows for the identification of the *high risk teams*. The individual coaches can then monitor the performance of their own teams over time.

2. There were wide differences among *cumulative* GPA, *non*-PE GPA, and PE GPA. It is recommended that the *non-PE* GPA vs. *PE* GPA be used in a study of athletes. (*PE courses* were any courses included under *TOP Code 0835*.)

3. It is important to monitor the academic performance of the student athlete on an on-going basis so as to determine any changes which might occur as a result of new program activities.

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